

ABSTRACT OF THE DISCLOSURE

There is provided an IAD (integrated access device) system in an ADSL (Asymmetric Digital Subscriber Line) system. In the IAD system, a first adapter is connected to the telephone one to one and has TDM channel information associated with the first adapter, for converting a voice signal received from the telephone to voice data and transmitting the voice data on a corresponding TDM channel via a telephone line. A second adapter is connected to the computer one to one and has TDM channel information associated with the second adapter, for transmitting data received from the computer on a corresponding TDM channel via the telephone line. A home master has information about the channels of the adapters, compresses voice data and data received via the telephone line, and transmits the compressed data via a general subscriber line. A MACS receives compressed signals from each home via the general subscriber line, decompresses the compressed signals, separates the decompressed signals according to destination networks, and transmits the separated signals to the corresponding networks.